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iQue™ - A/VTs (iQue™-Vision)

Portable / Wireless Connection to a Unix Server (Fig.4)

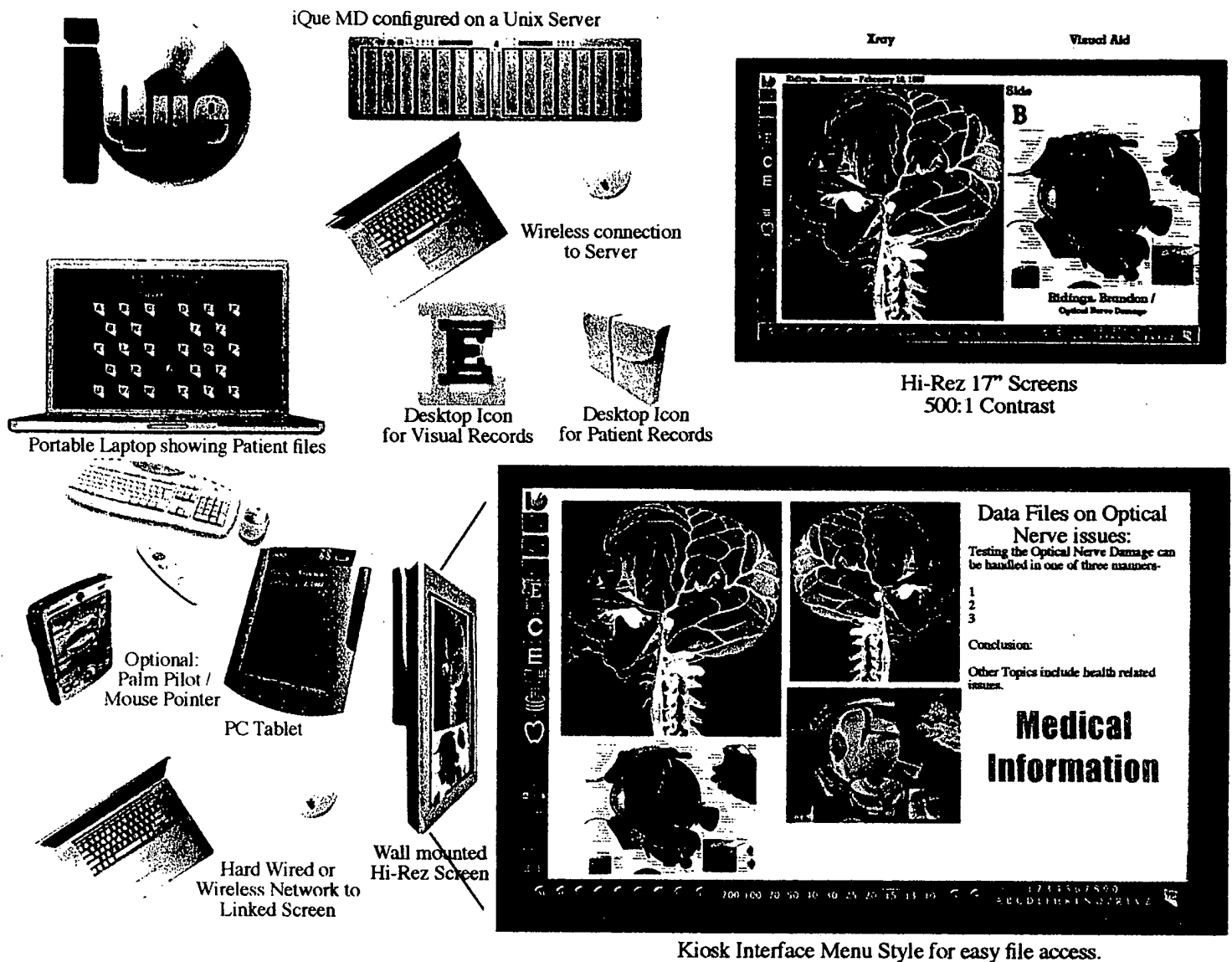


Figure 4 - Another unique feature that sets the iQue-A/VTs apart is the portable connection a doctor can have to the server. This configuration includes a Laptop, Palm Pilot, and PC Tablet. The wireless connection is not limited to just the portable architecture. It can also be used with any other computer system configured with either 802.11b or 802.11g wireless cards. Choosing either icon on the main menu, Vision Testing or Patient Records, the doctor would be able to call up any number of visual aids, reference material or patient records to help in the examination process. The screen on the laptop show what a doctor would see with trying to locate a patients file using the alphabetical listings. This system also lends itself to be used with a Keyboard/Mouse, Palm Pilot, Mouse Pointer with a hard wired or wireless connection to a Hi-Rez display screen in the same exam room.

iQue™ - A/VTs (iQue™-Vision)

Multiple Operating Systems on a Unix Server (Fig.3)

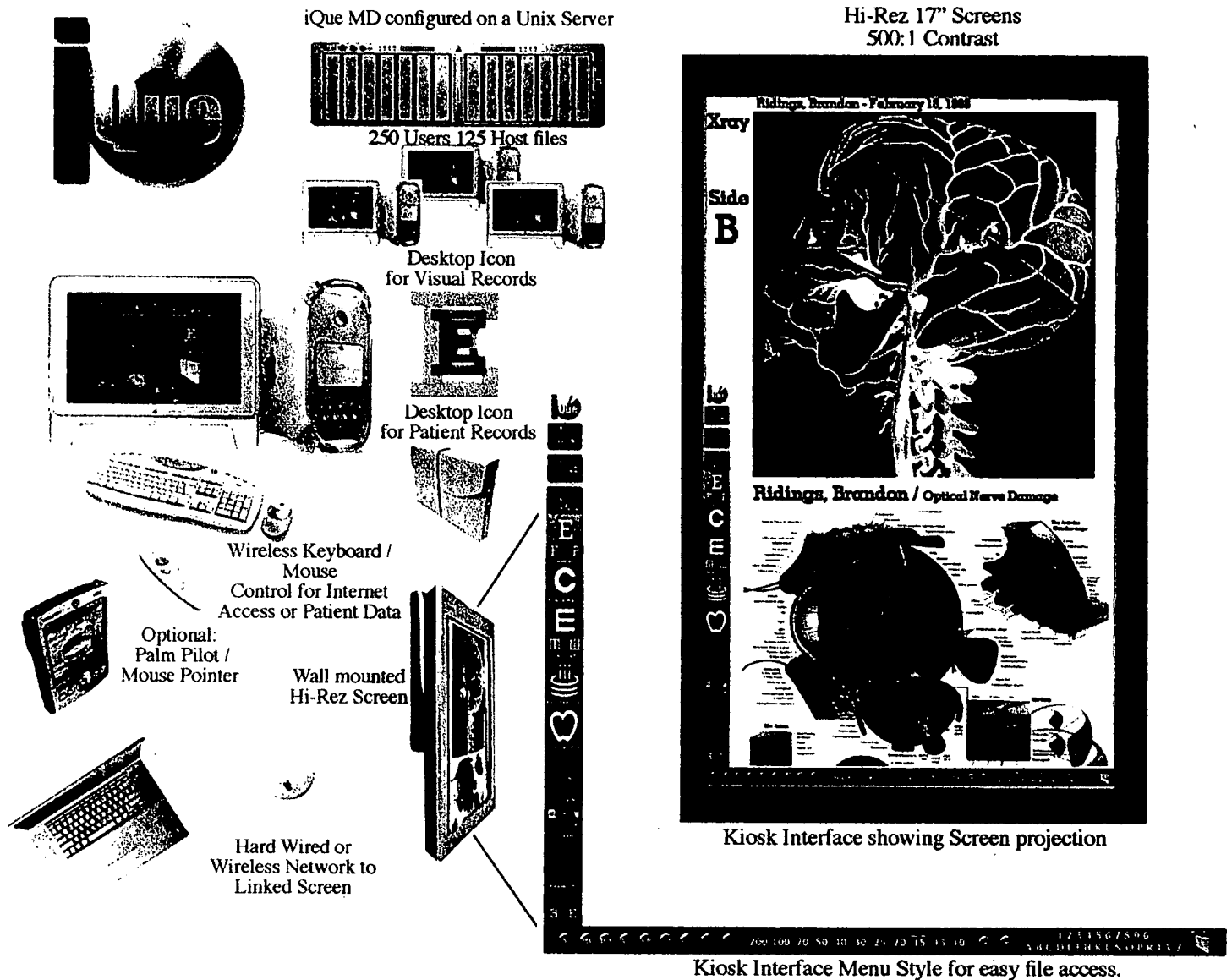


Figure 3 - One of the main features of the iQue-A/VTs are the total number of computers that can be linked to the same Unix Server system. This system give access to 250 workstations while hosting 125 database files. This expendability with multiple operating systems clearly sets it apart from other Medical Database system. Choosing either icon on the main menu, Vision Test-ing or Patient Records, the doctor would be able to call up any number of visual aids, reference material or patient records to help in the examination process. This system also lends itself to be used with a Keyboard/Mouse, Palm Pilot, Mouse Pointer or portable laptop with a hard wired or wireless connection to a Hi-Rez display screen in the same exam room.

iQue™ - A/VTs (iQue™ Vision)

Stand Alone Configuration

(Fig.1)

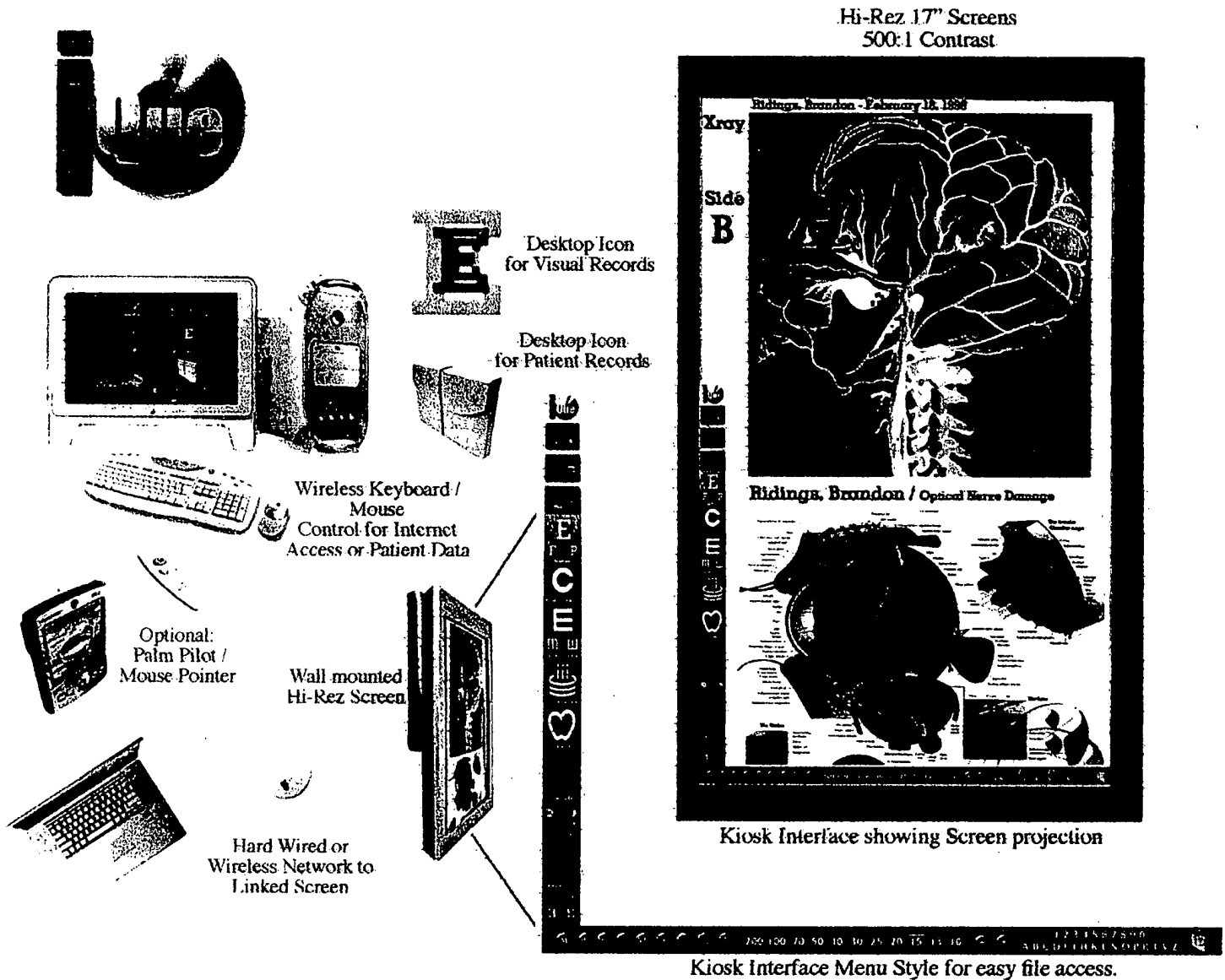


Figure 1 - Using the iQue-A/VTs a "Stand-Alone" Product a Doctor using a Unix based computer would access the files using the kiosk system. Choosing either icon, Vision Testing or Patient Records, the doctor would be able to call up any number of visual aids, reference material or patient records to help in the examination process. This system also lends itself to be used with a Keyboard/Mouse, Palm Pilot, Mouse Pointer, portable laptop or tablet pc with a hard wired or wireless connection to a Hi-Rez display screen in the same exam room.

iQue™ A/VTs (iQue™ Vision)

Multiple Operating Systems on a Unix Server

(Fig.2)

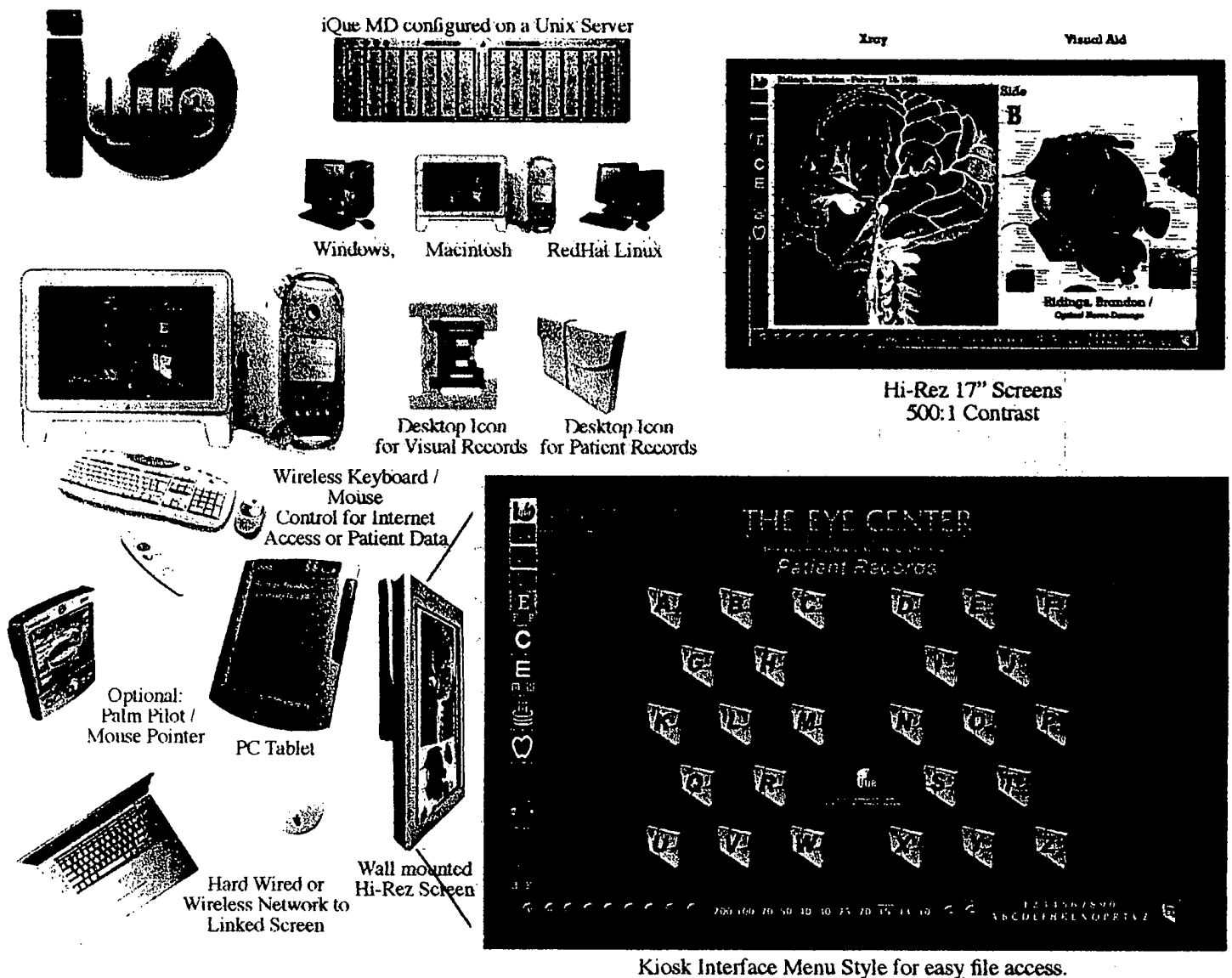
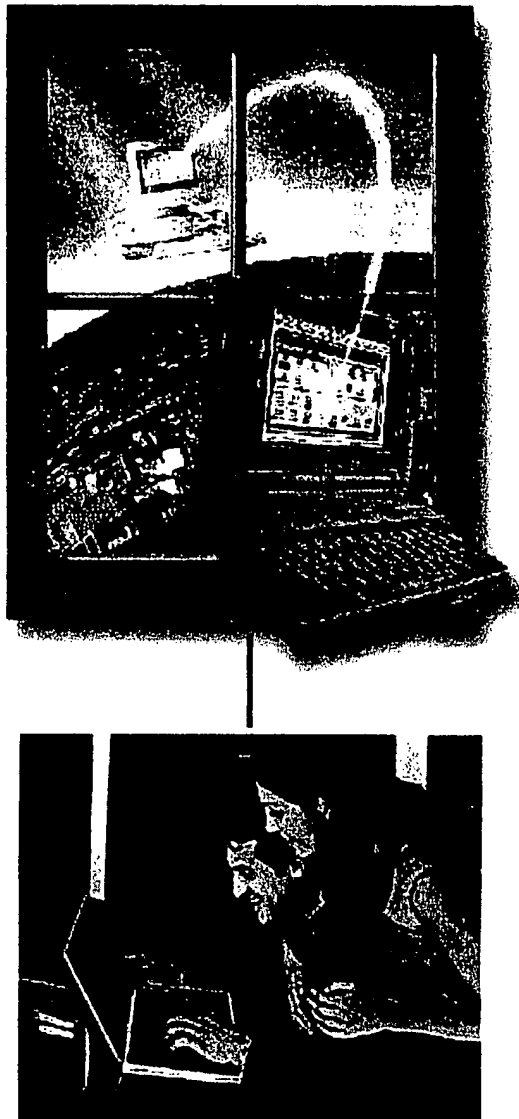


Figure 2 - Using the iQue-A/VTs does not lock the user into one computer system. Using a Unix based server the same files can be access with either Windows, Macintosh or RedHat Linux. The end user now has a choice of personal taste or customization. This means that any of these computer systems, Macintosh, Windows or RedHat Linux with the right specification, can now access the same files at the same time all on the same network. Choosing either icon on the main menu, Visual Records or Patient Records, the doctor would be able to call up any number of visual aids, reference material or patient records to help in the examination process. This system also lends itself to be used with a Keyboard/Mouse, Palm Pilot, Mouse Pointer or portable laptop with a hard wired connection or a wireless connection to a Hi-Rez display screen in the same exam room.

iQue™ - A/VTs (iQue™-Vision)

Internet Based Home Therapy System

(Fig.5)



Using any Internet Browser:

A patient can access simple therapy test as long as the monitor meets resolution and size requirements

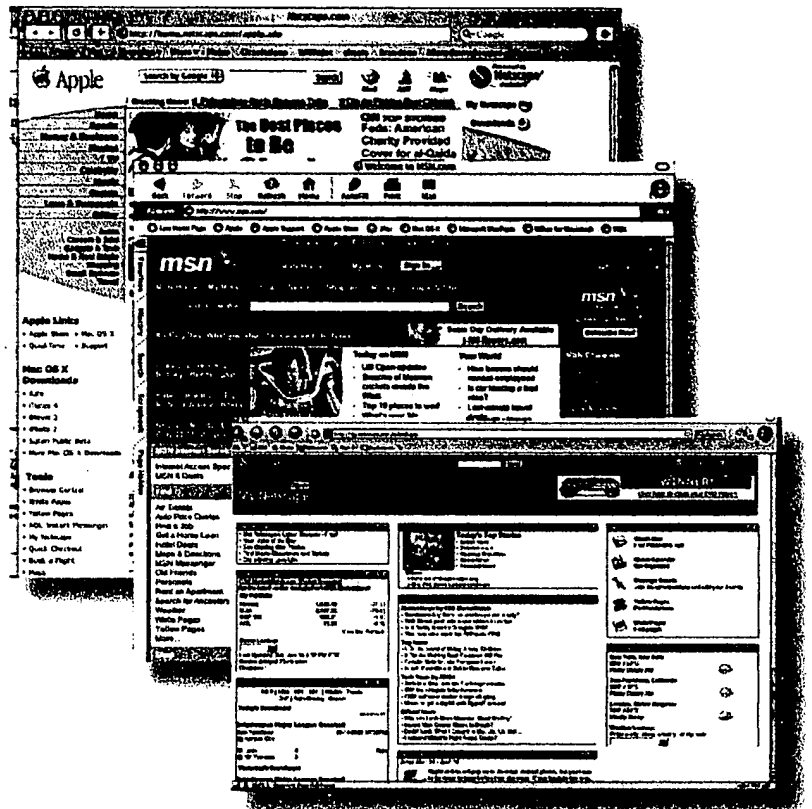
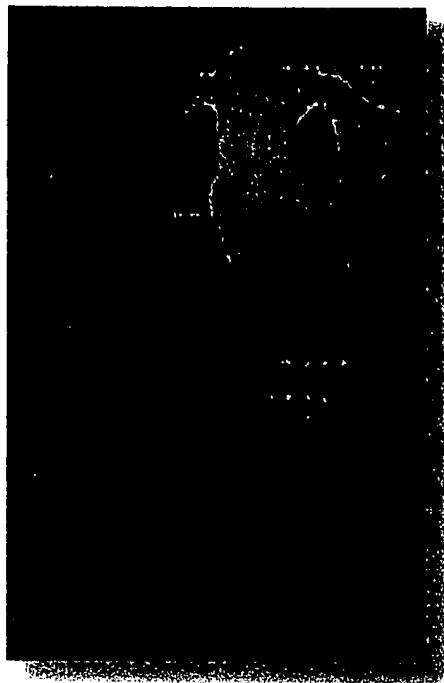


Figure 5 - Another unique feature that sets the iQue-A/VTs apart is the new internet Home Therapy System. Using this configuration and any one of the standard web based browser technologies, a doctor if needed could have a patient log on and perform a list of daily, weekly, or monthly therapy sessions via the instructions that were posted. Having done the prescribe therapy sessions the doctor could monitor the results with a report that could be access to show what the patient had accomplished by logging on. It could be something as simple as eye movement exercises with a verity of tests. After each test the system would automatically log what tests had been done, how long it took and when. It could also be something in the way of instructions on muscle moment therapy or anything the doctor felt the patient required for a better recovery.

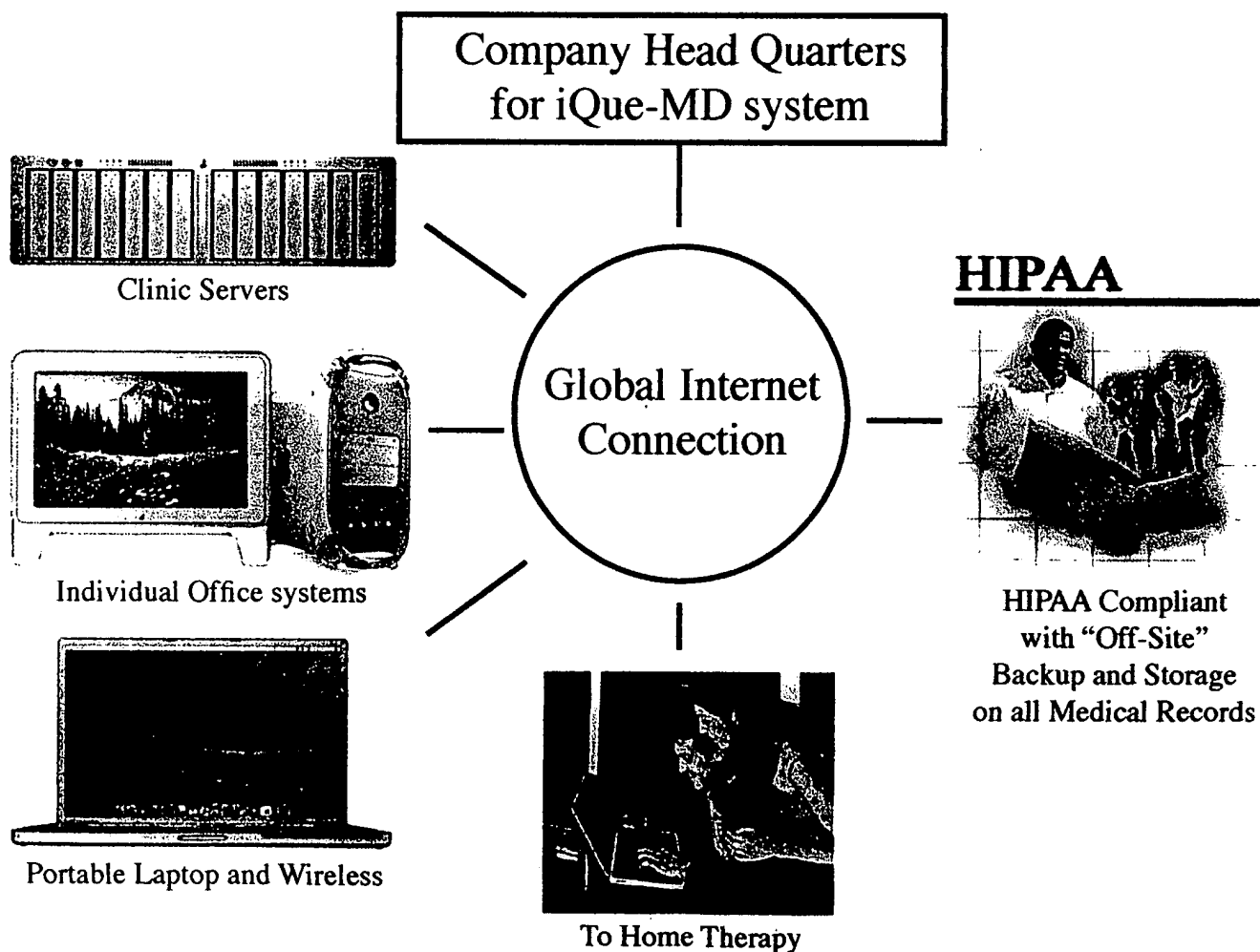
iQue™ A/VTs (iQue™ Vision)

Unix Server Benefits and Connections (Fig.6)



Services offered on the Server:

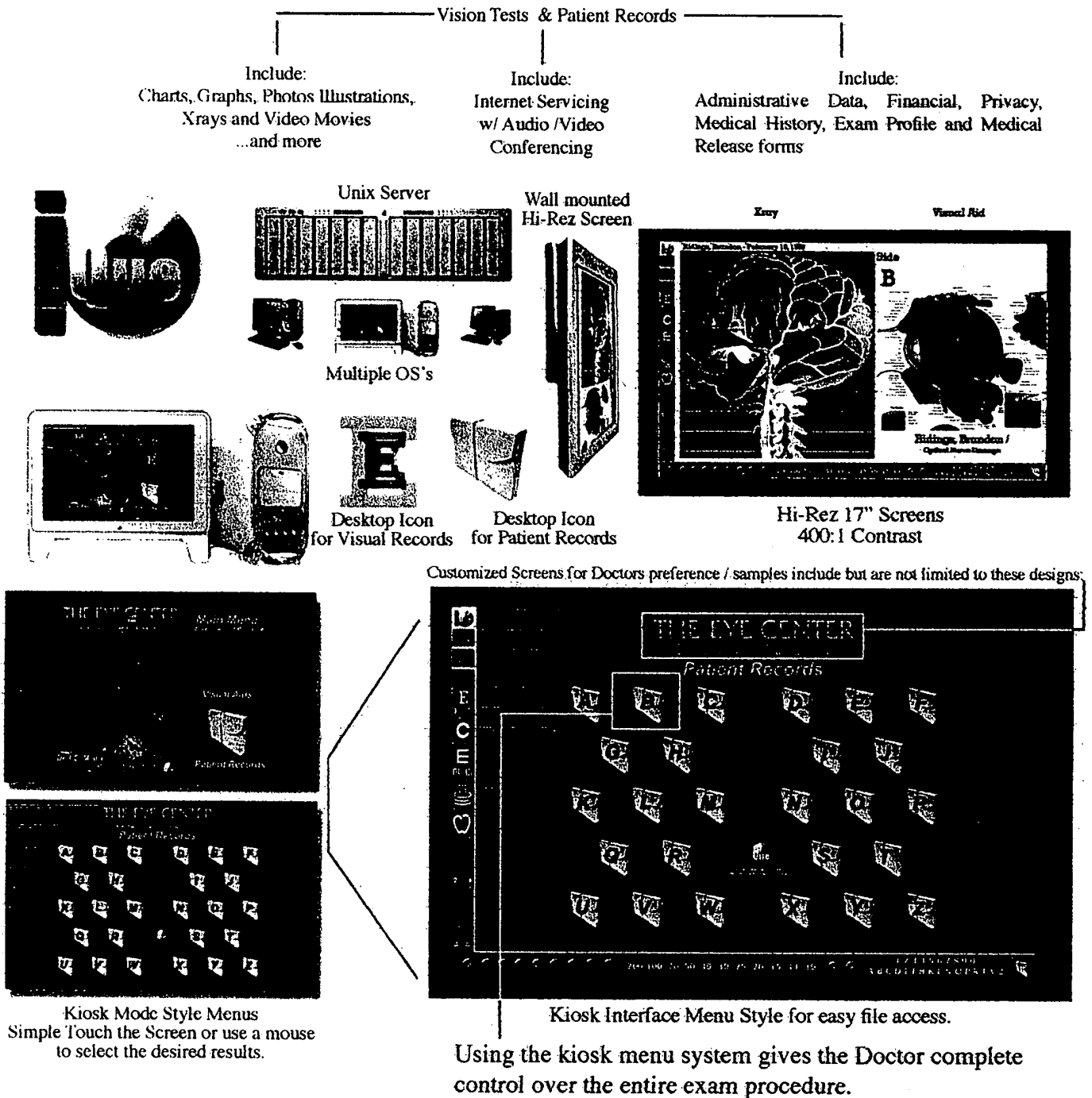
- Server Maintenance (Contract Basis)
- Up Grades to system software
- Ordering and Downloading Test
- Information on new tests
- Electronic Patient Records
- Patient Photos and progress images
- Data Base Storage & Backup
- Home Therapy access
- Patient Education on products
- Doctors Reference Materials
- HIPAA Compliant



iQue™ A/VTS (iQue™ Vision)

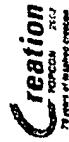
Functionality & Menu Control

(Fig. 7)
Main Menu



The applications can be customized for areas of interest that include, but are not limited to: All of the tests would be either animated or slide form in such a way as to provide a more educational, entertaining and comprehensive test than could ever be achieved with any other medium. New testing applications can be customized for areas of interest that include, but are not limited to: pediatric vision testing, general vision testing (adult and child), low vision testing (adult and child), sports vision testing (adult and child), acuity screening (adult and child) and home therapy (adult and child). Specialized testing will include: stereo testing / color testing / hue testing - D15 / neutral density testing / variable & non variable VetroGrams / depth perception with 3D stereo testing / visual game testing via computer and HTML/XML and any other visual testing system that can be animated in design and implemented onto the iQueVision: Animated - Vision Testing System. With the iQueVision: Animated - Vision Testing System, any doctor that purchases this system can administer a number of technically accurate and animated vision tests at the push of a remote control touch screen (kiosk), Keyboard/mouse or PDA button.

TOPCON



AUTO CHART PROJECTOR
ACP-8 NEW

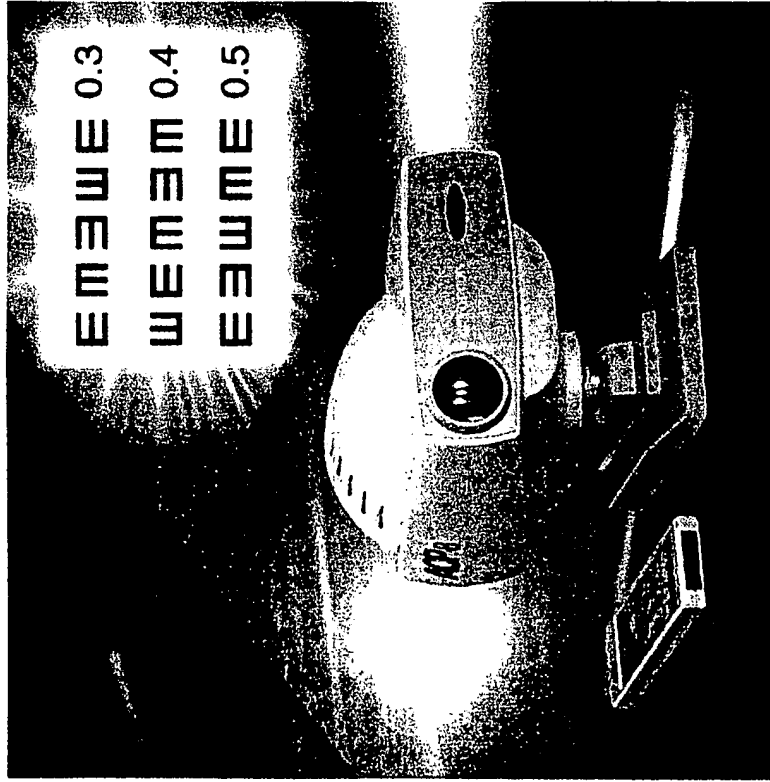
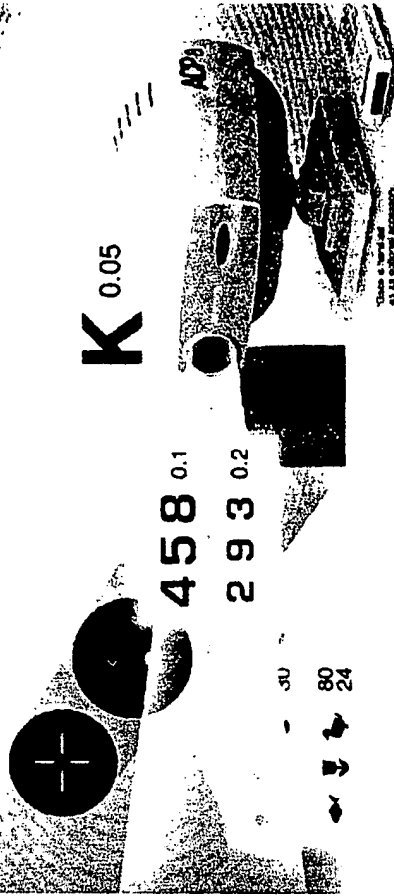


Figure B1

VERSATILE... QUICK... CONVENIENT... FUNCTIONAL

The TOPCON ACP-8 VARIA Auto Chart Projector provides improved sharp and clear image projection and fast chart rotation. A cordless remote control allows instantaneous projection of the 30 test charts at a rate of 0.03 seconds per frame. In addition, the ACP-8 can offer 3 x 5 character charts with a wide projection size (330 x 270) for fast and efficient testing.



Features

● Coupled with CV-3000

The ACP-8 series can be remote controlled directly with the TOPCON Varia Vision CV-3000 remote controller. This combination allows the operator to quickly and easily access all functions for general test evaluation.

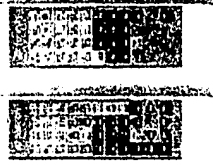


● Program Settings

The ACP-8 series can be programmed to project a specific sequence of charts for maximum flexibility and reference test result.

● Single Character Masking

The versatile masking capabilities of the ACP-8 series allow projection of a single character at a time.



● Easy Setup and Maintenance

It is very easy to replace the bulb. You needn't adjust the position and focus of the bulb after replacement.

● Tilt Function

The horizontal axis of the projector can be adjusted to guarantee a perfectly positioned projection on the screen.

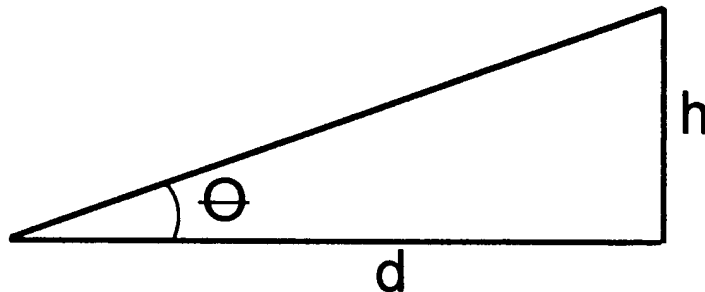
Figure B1

Figure B1

Measurement Formula for 20/20 Vision (Figure A)

$$\tan \Theta = h/d$$

$$\tan 5' = h/6m; h = 8.73mm$$



Digital Acuity Vision Testing Formula (DAVTF)

The digital minimum formula is:

400:1 Contrast Sensitivity or >

@ 1° true rez visual acuity letters

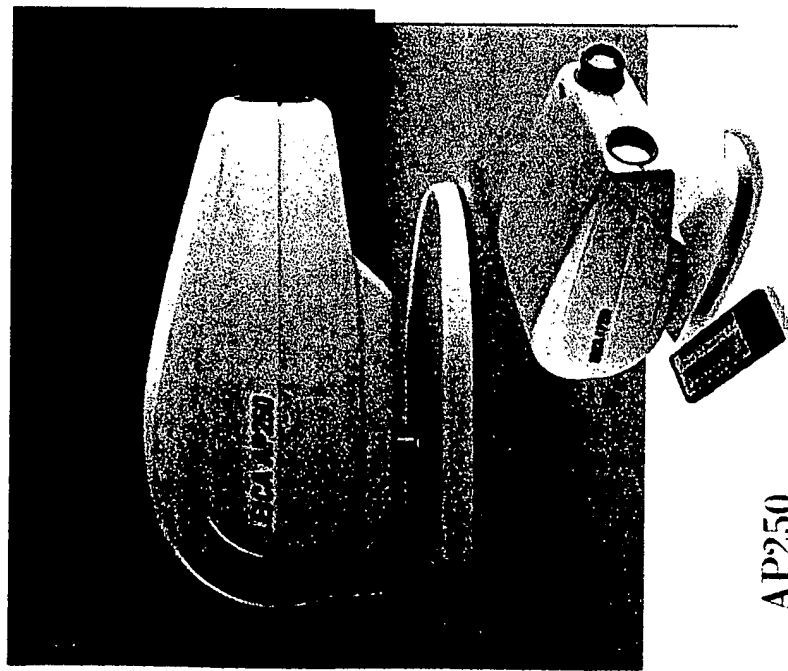
**@ min screen resolution of 1024x768 or >
4500K ambient light or >.**

$$\tan \Theta = h/d$$

$$\tan 5' = h/6m; h = 8.73mm$$

400:1 > @ 1° TR
SR 1024 x 768 > /4500K >





AP250
Automated Projector

Reichert
Optometric Instruments
A Division of Leco Microsystems Inc.

REICHERT

Designed to Meet Your Needs
Your choice of floor, table, wall or rear mount stand ensures efficient use of space in your plan facility.
Designed to hold with any accuracy, the AP250 is the most accurate projector available.

Letter Charts
E ZVF: 20M: 10000
PND: 20M: 10000

Buy this. Get this FREE!



EXTENDED
until
Oct. 31st

Base is not included A vertical base is available for the microscope. The base is made of heavy-duty aluminum and is designed to hold the microscope in a vertical position. The base is available for the microscope. The base is made of heavy-duty aluminum and is designed to hold the microscope in a vertical position.

Images can be focused in a single second to test at any easily readable and per inch.



Figure C

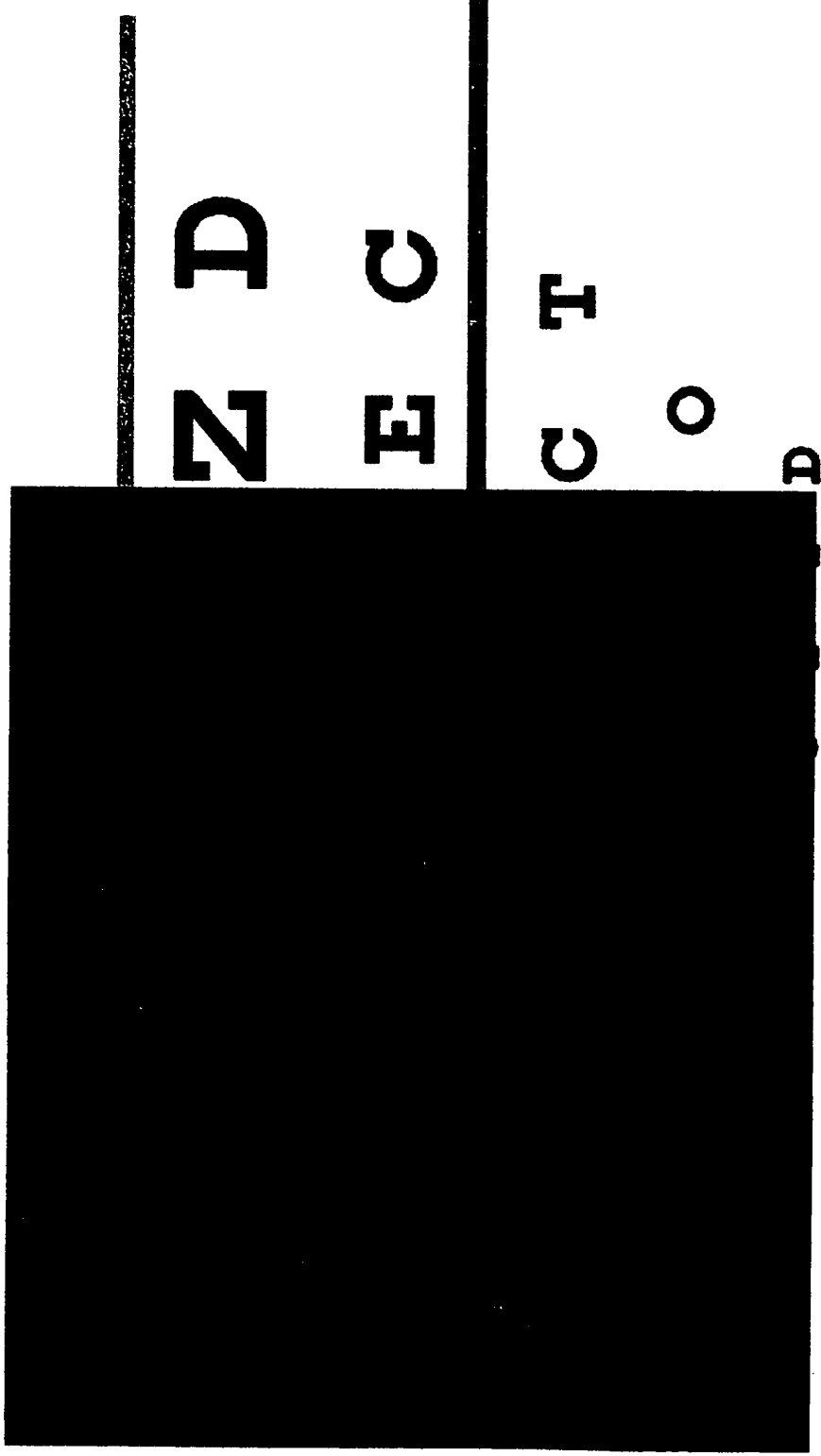


Figure C

OBSERVATIONS

Bulb Life

Bulbs & Halogen Bulbs

Halogen Bulbs burn at 3000 - 3500K

Brightness of the bulb during its life

2 - 3 years - \$50 - \$550 Replacement

Room Lighting

Silver Oxide (Gray) Screens

Contrast Lighting < 250:1

Room Lights 4000 - 6500K

Dim the room lights to see the screen

Slide Test

Easy Access to different Slides

Damage due to wear and tear

Limited Number of Tests

Fuzzy Letter over any distance

No Color Screening

Winter Heater

Not Much Fun...

No Real World Lighting

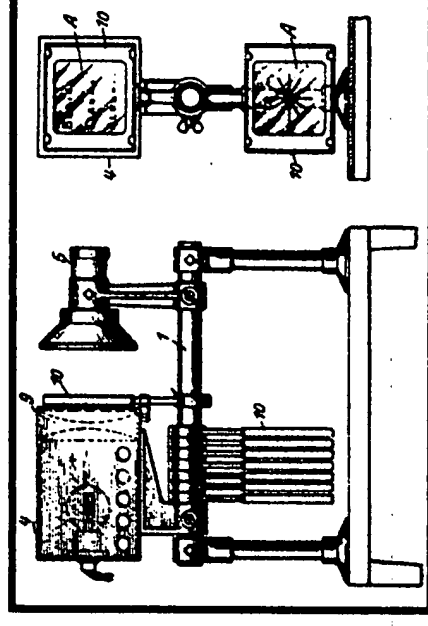


Figure E



Compatible with: Windows , Mac OSX, RedHat Linux over TCP/IP, IXP/SPX and Apple Talk

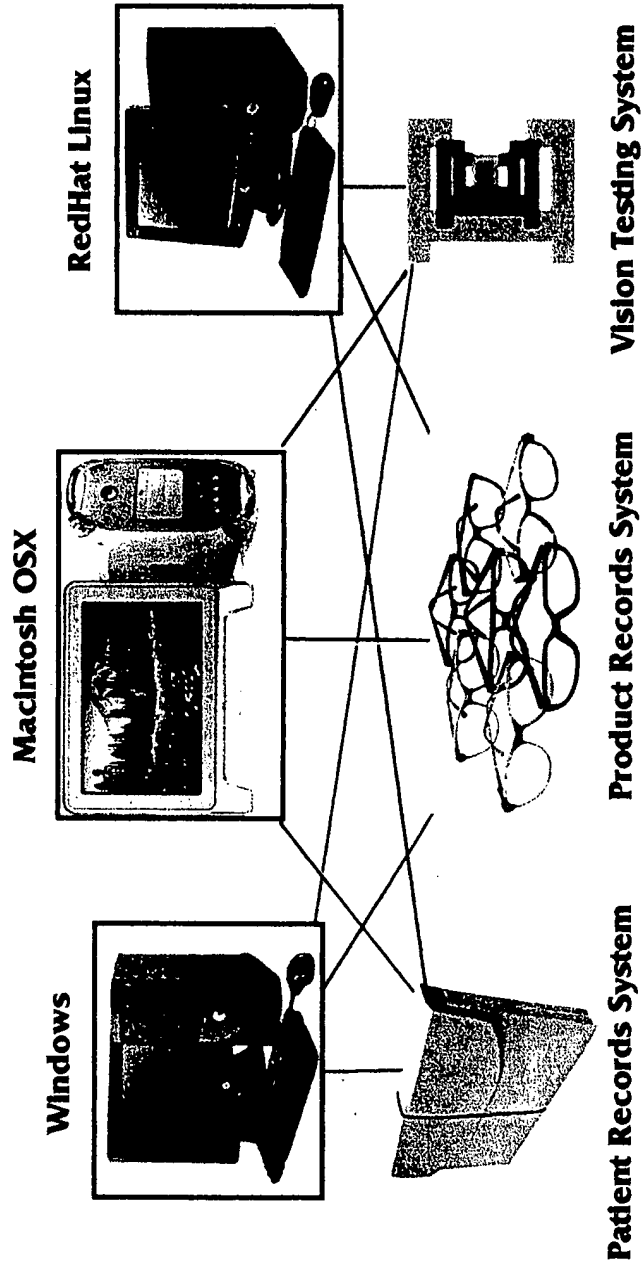
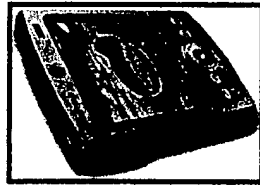
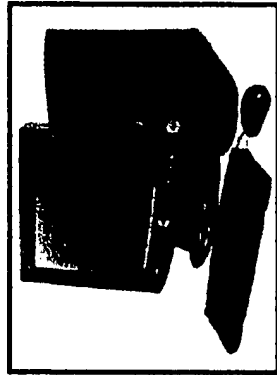


Figure E

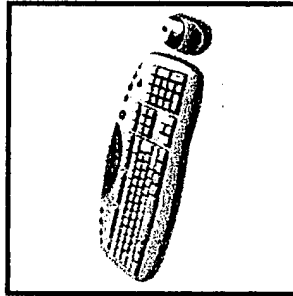
Figure F



Optional



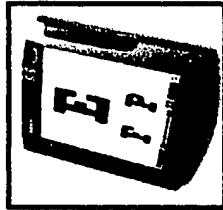
PDA



**Wireless
Keyboard
Mouse**



**Wireless
Pointer
Mouse**



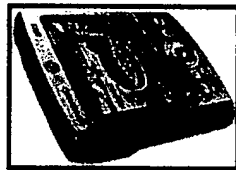
**PC
Tablets**

Figure F

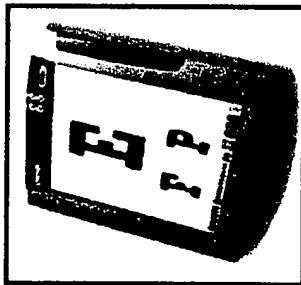


More Doctors Tools

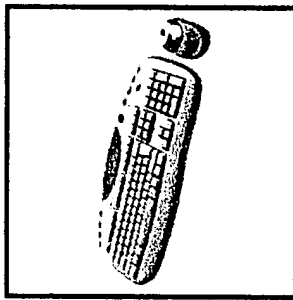
Wireless Network



PDA



PC Tablets



Wireless Keyboard /
Mouse



Wireless
Pointer / Mouse

Access files

Access the Web

Check E-Mail

Under Mac OSX

**Using the
AOL Buddy List**

**Internet Audio
Phone Calls**

**Video conference
iSight Web Cams**

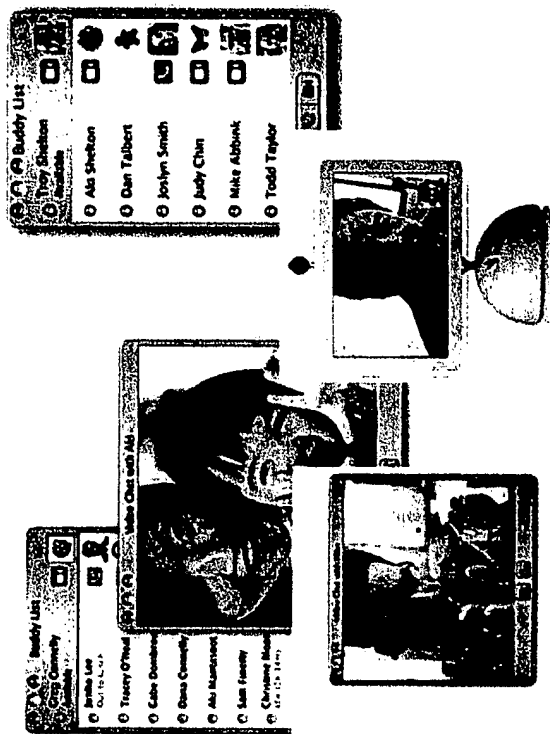
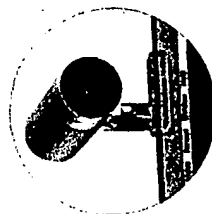



Figure H



VISION MANAGEMENT SYSTEM

Terminal — tcsh (ttyp1)

login: Wed Jul 16 08:22:41 on ttyp1
Welcome to [orwin]
[root@medias-computer:~] authentication: |

Technical Internet Service with Backdoor Terminal Access

...and best of all!


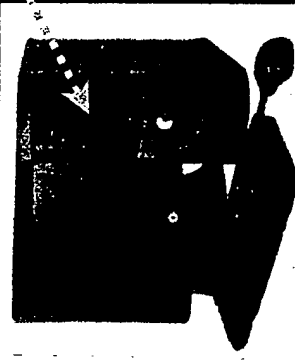
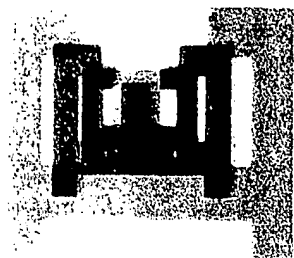



Figure H

Figure 1i



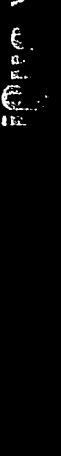
Choice - Basic Menus





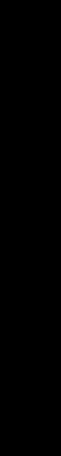
Main Menu

Educational Instructional



20/20 Animation

Main Menu 20/20 Slides



20/20 Slides


Main Menu 20/20 Animation
Educational Instructional

Snellen	Broken Wheel
Clock Dial	Numbers
Tumbling E's	4 Dot Test
Dynamic Tools	Phoria Testing
Lea Optotype	Allen Optotype
Color Squares	R&G Letters
ISO Letters	Fixation
HTOV	

Dr. I.C. Mieux

Figure 1i

Figure 12



Choice - Clinical Menus

I.C. Mueix Eye Center
Dr. Your Name Here

Solid Color

I.C. Mueix Eye Center
Dr. Your Name Here

Gradient Color

I.C. Mueix Eye Center
Dr. Your Name Here

Phoroptor S/G

I.C. Mueix Eye Center
Dr. Your Name Here

Retina S/G

- Clinic Name
- Doctors Name

Dr. Your Name Here
Test Menu
E E

Dr. Your Name Here
Test Menu
E E

2070 Animation 2070 Slides
2070 Animation 2070 Slides

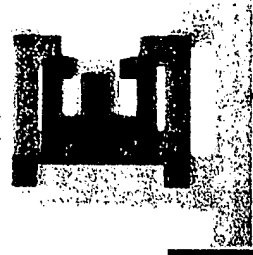
Figure 12

Figure 13



Choice - Custom Menus

PDF Proofing - Email



I.C. Mueix Eye Center 1900 W. 10th St. Suite 100
Greengarden

Dr. Samantha Sharp

Test Menu

E E

20 20 Animation 20 20 Slides

E E

20 20 Animation 20 20 Slides

I.C. Mueix Eye Center 1900 W. 10th St. Suite 100
Greengarden

Dr. Diane Lee

Test Menu

E E

20 20 Animation 20 20 Slides

E E

20 20 Animation 20 20 Slides

I.C. Mueix Eye Center 1900 W. 10th St. Suite 100
Greengarden

Dr. David Reynolds

Test Menu

E E

20 20 Animation 20 20 Slides

E E

20 20 Animation 20 20 Slides

• Clinic Designs • Professional Designs • Personal Designs

Figure 13

Figure J

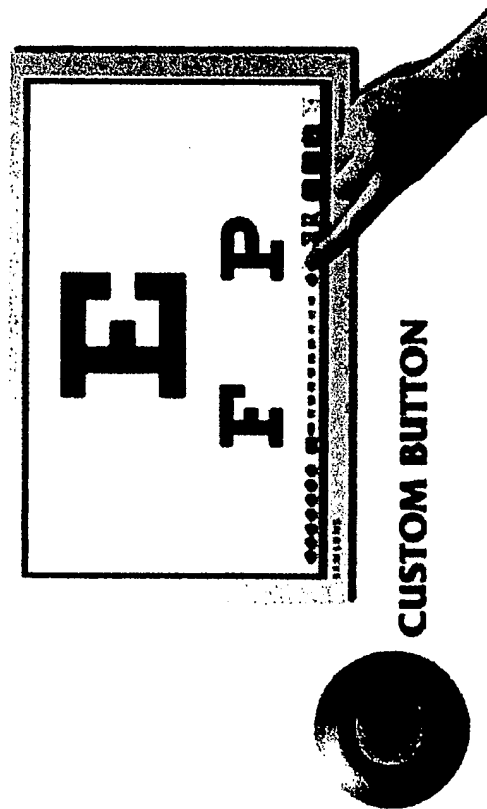


Choice - Custom Button



Doctor Orders!
All-in-One

15 Slide Test



Snellen • Lea Optotype
Broken Wheel • Allen Optotype
Clock Dial • Color Squares
Numbers • R&G Letters
Tumbling E's • ISO Letters
4 Dot Test • Fixation
Dyanmic Tools • HTOV
Phoria Testing

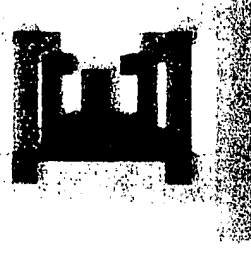
40>15 Snellen - HOTV 30>15 - Allen 40>20 - Tumbling E 70>15 - 4 Dot > close with R&G

Figure J

Figure K



iQue Vision Testing System



15 Slide Test

15 Animated Test

Snellen	Lea Optotype	Snellen	Lea Optotype
BrokenWheel	Allen Optotype	BrokenWheel	Allen Optotype
Clock Dial	Color Squares	Clock Dial	Color Squares
Numbers	R&G Letters	Numbers	R&G Letters
Tumbling E's	ISO Letters	Tumbling E's	ISO Letters
4 Dot Test	Fixation	4 Dot Test	Fixation
Dyanmic Tools	HTOV	Dyanmic Tools	HTOV
Phoria Testing		Phoria Testing	

Snellen Test has 81 Slides - Over 300 tests

Figure K

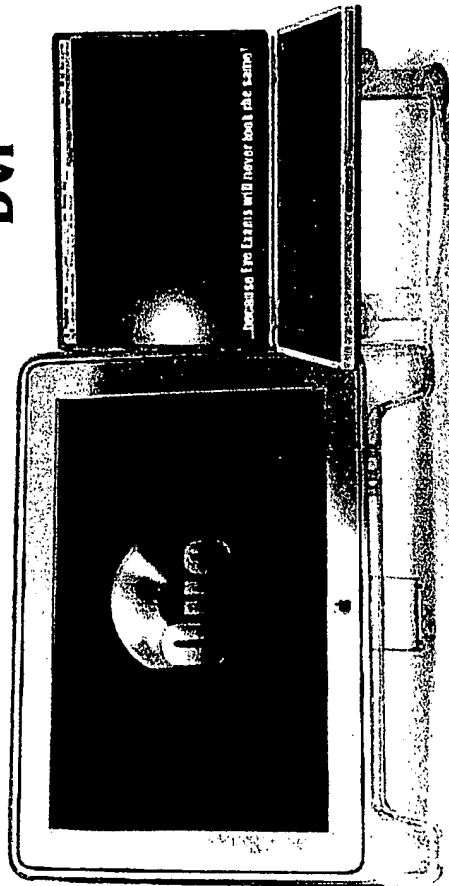
Figure L1



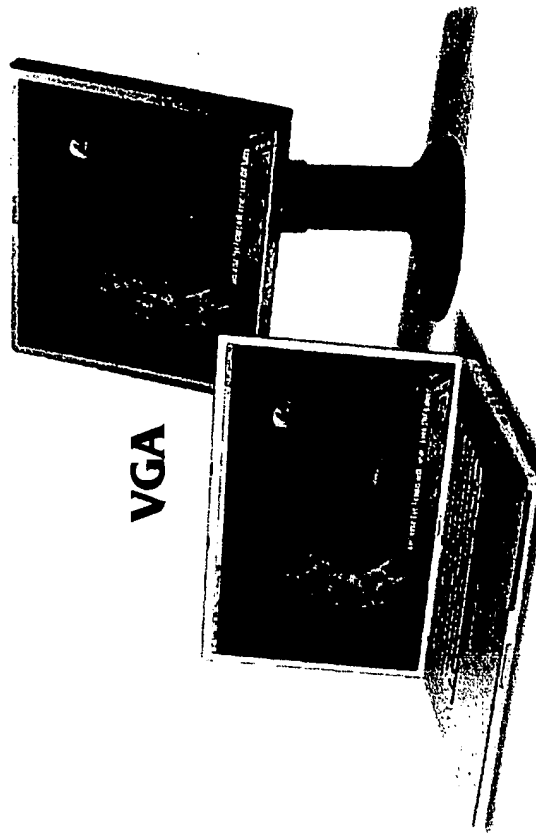
Stand Alone Configuration



DVI



VGA



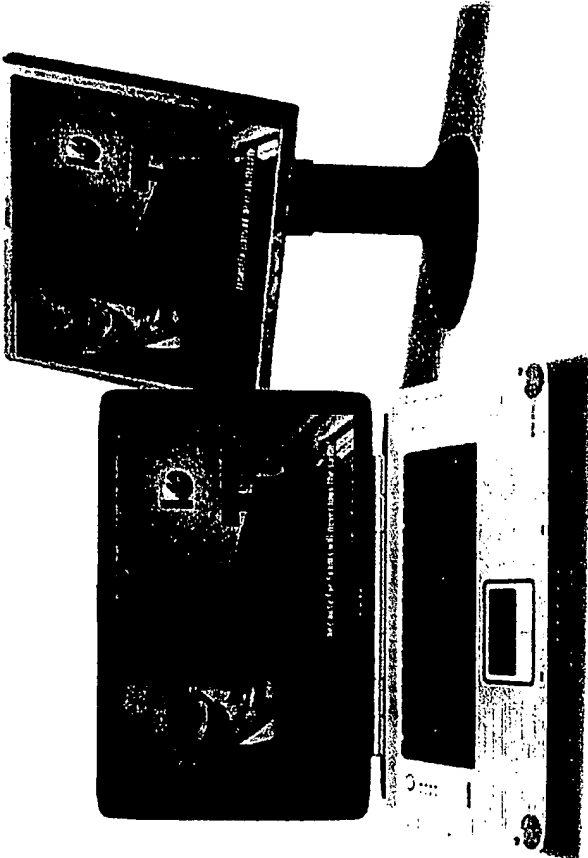
15" & 17" Apple Powerbook
Touch Screen

Figure L1

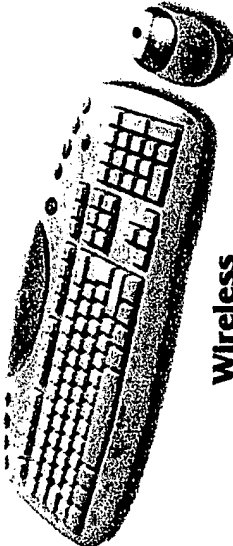
Figure L2



PC Stand Alone Configuration



Toshiba P25-S609 - 17"



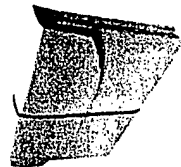
**Wireless
Keyboard / Mouse**

Figure L2

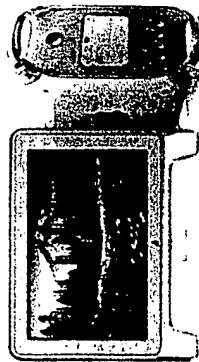
Figure L3



Cross Platform with Server Connection



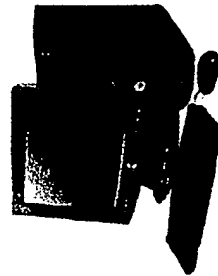
Patient / Admin Records



Macintosh OSX



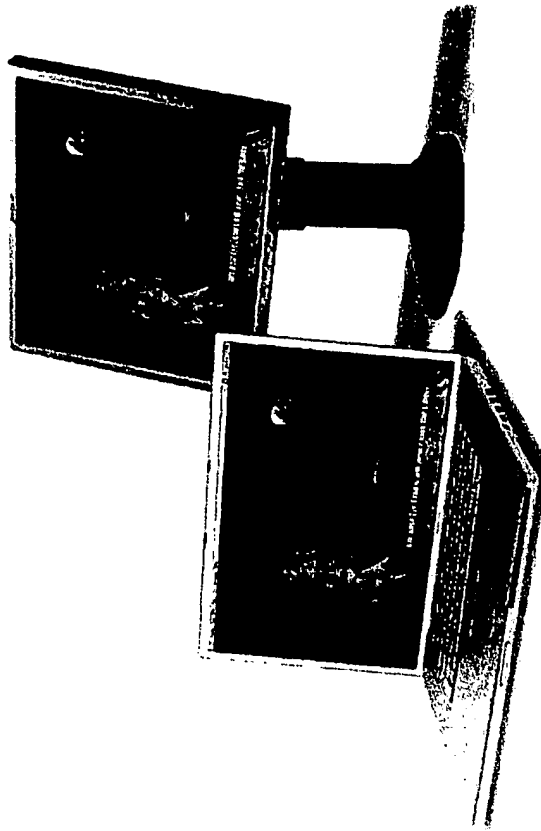
Windows OS



RedHat Linux



Vision Testing Side



Choice of Platform or Existing System

Figure L3

Figure L4



Portable Systems

Choice of Wireless Connection

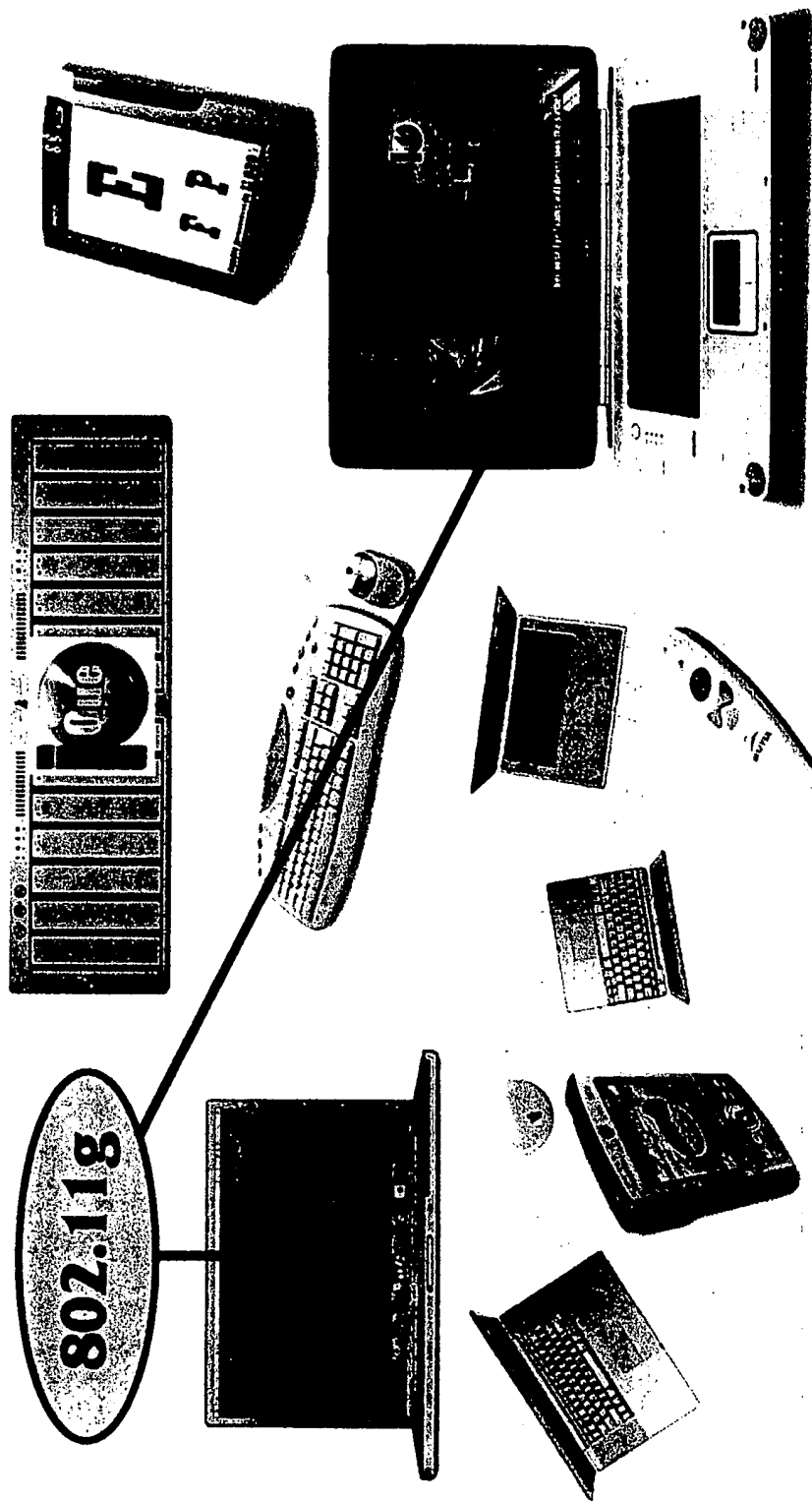


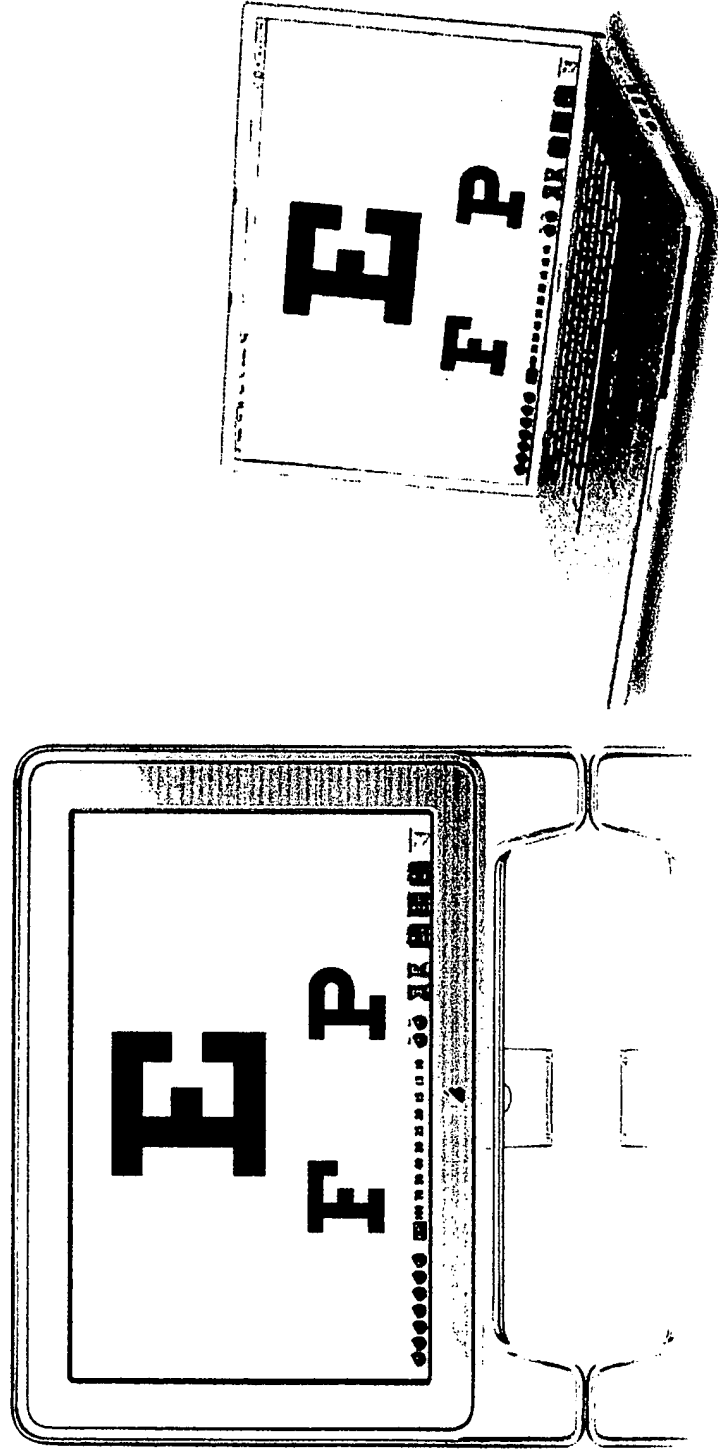
Figure L4

Figure Ls



Figure Ls

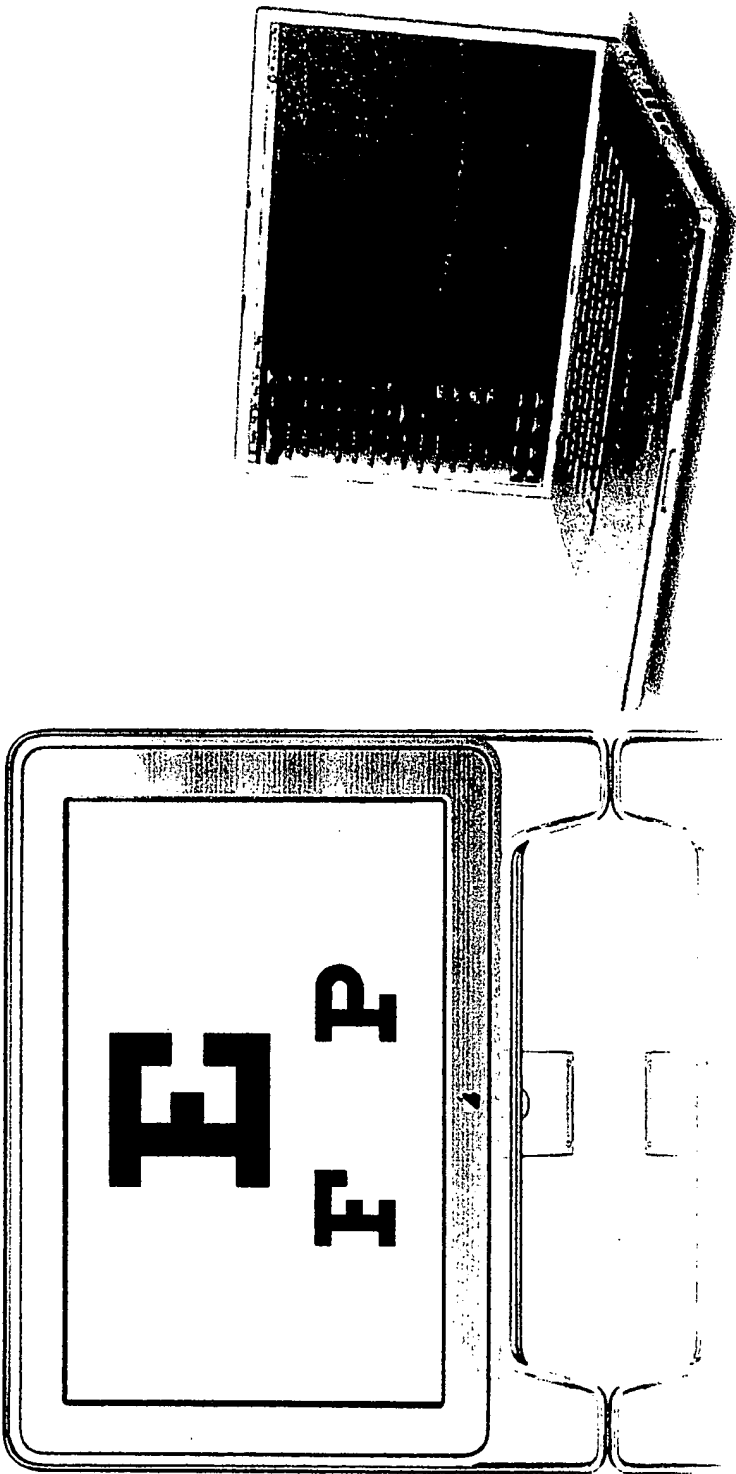
Figure M1



<<< **VGA** >>>

Figure M1

Figure M2



<<< DVI >>>

Figure M2

Figure N1

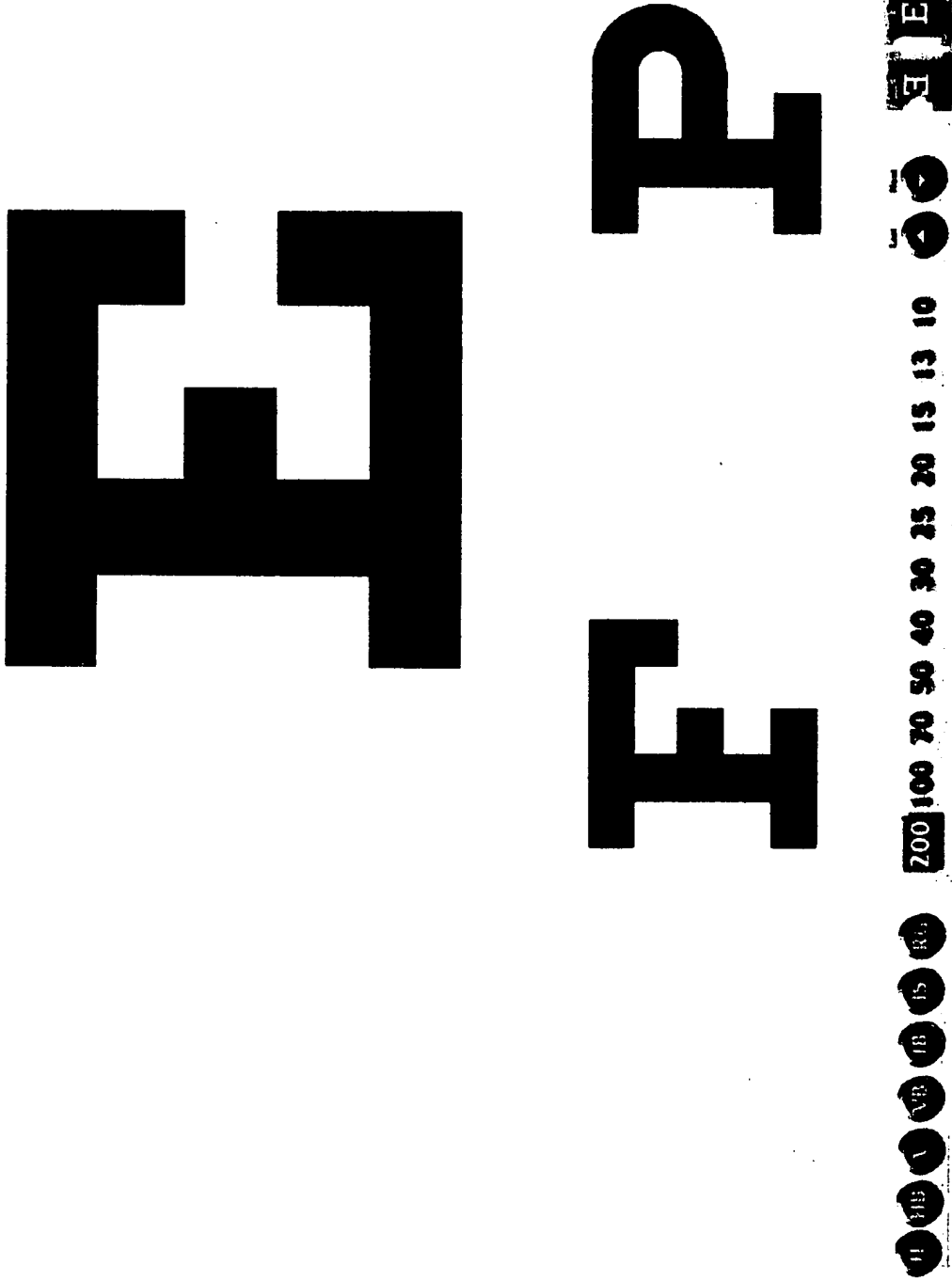


Figure N1

Figure N2

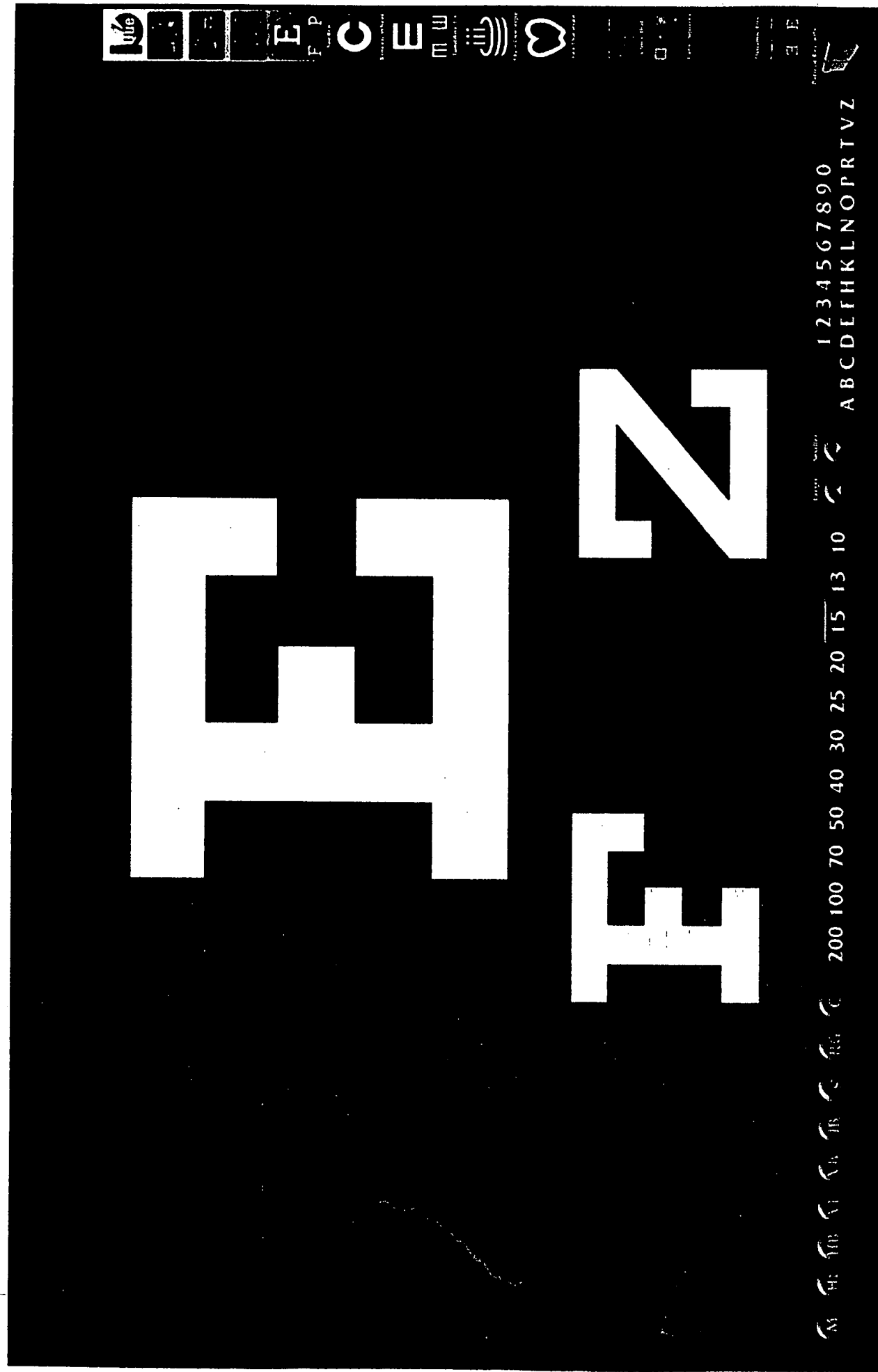


Figure N2

Figure N3

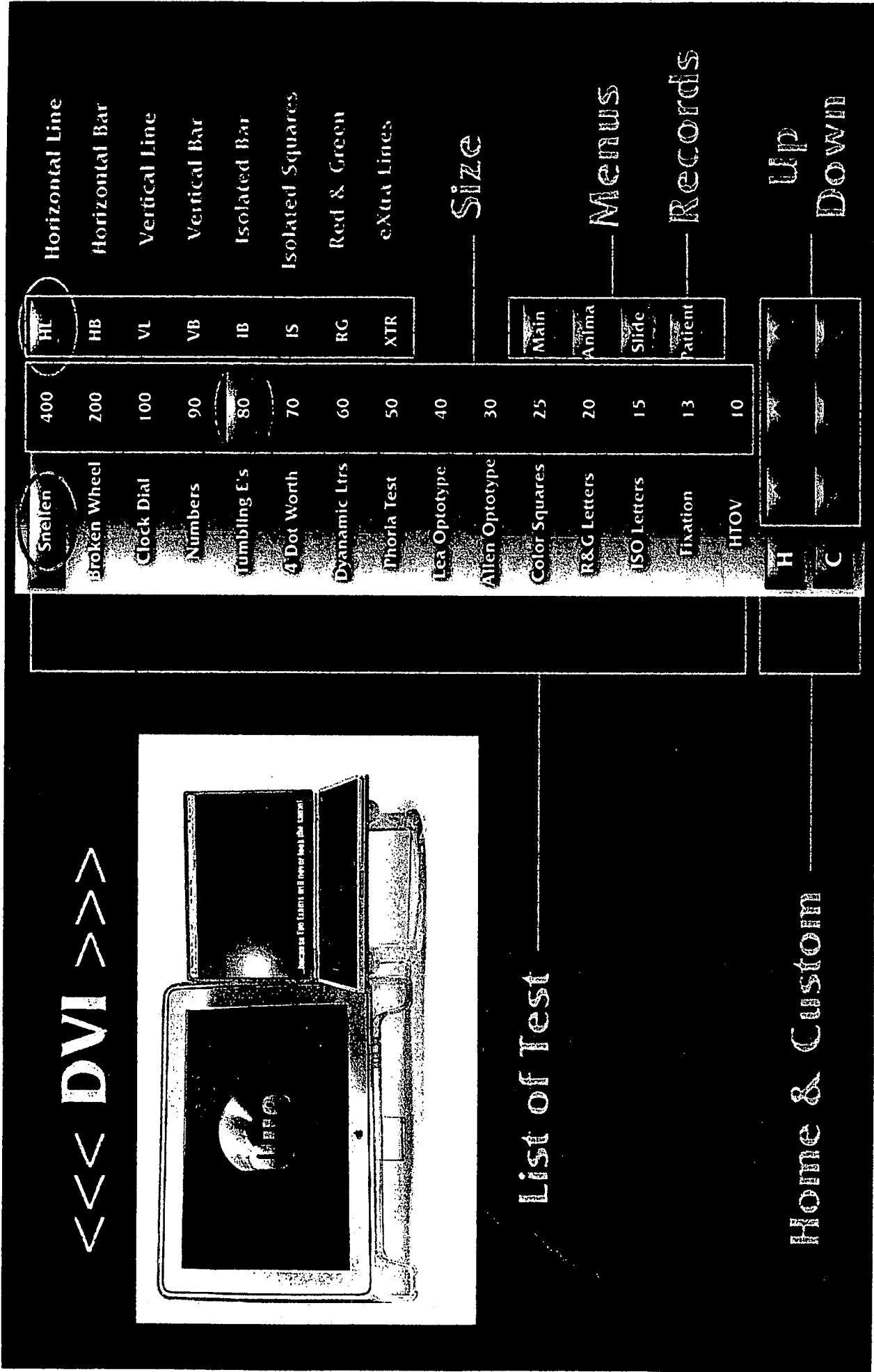
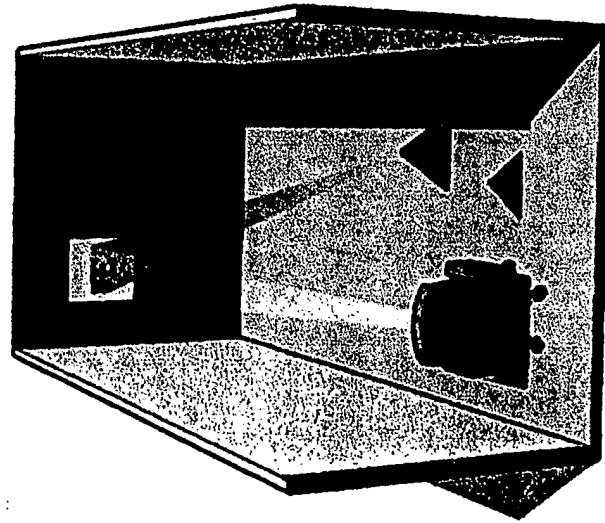


Figure N3

Figure O

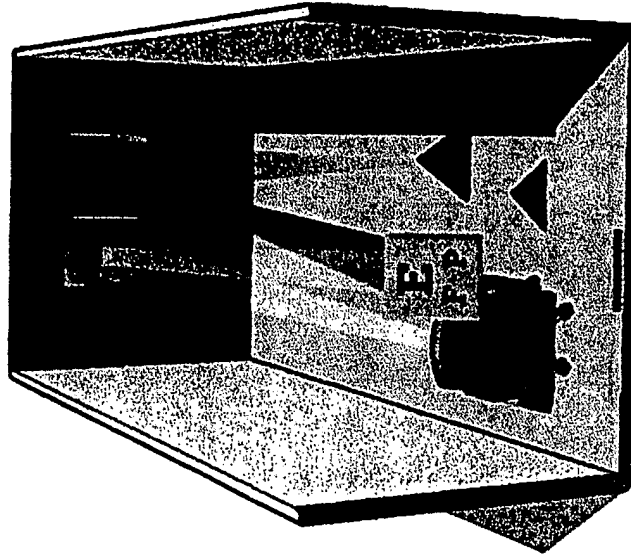
Projection Systems vs iQue A/VTs

Patients View vs Projection in a 20ft room



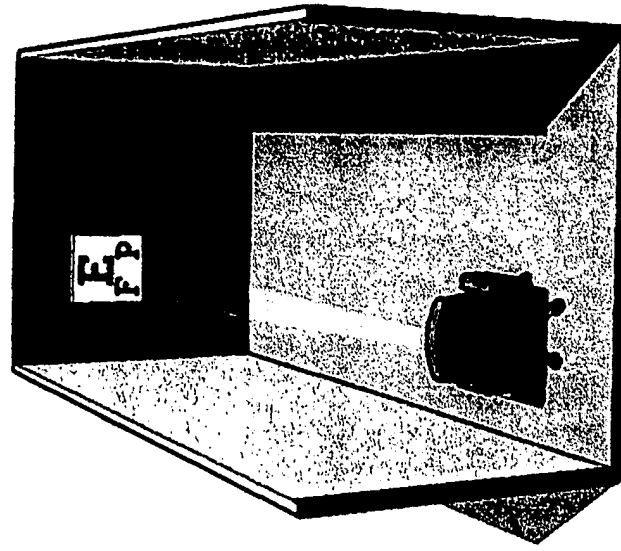
Since the late 1940's projection systems had to project an image less than one inch in size onto a silver-oxide screen some 20ft away. To help the patient see the optotypes OD's had to dim the lights - because the blubs in the projectors were not bright enough and the contrast level was below 250:1. Another issue that soon became apparent was the projected degree of angle, which distorts an image and results in a non-symmetrical trapezoidal-shapes in the optotypes.

Patients View vs Projection in a 10ft Mirrored room



Today, some 60 years later, nothing has really changed. This is a Projection system in a 10ft room built to simulate a 20ft room. This modified vision testing system is a great space saver. It uses two mirrors, one for the projector and one for the patient. Studing these angles on this focal plane the distortion for the optotypes would appear to be twice as bad. However, using a Halogen bulb you might reach 250:1 on the contrast level but the doctor would sill have to dim the lights.

Patients View with iQue Monitor Screen in a 10 or 20ft room



Then there's the iQue Vision Testing system. Leave the lights on and experience real world testing. Using our "Digital " 20/20 formula minimum of 400:1 contrast you can position your patient directly in front of the screen. The system works in both the 10ft or 20ft configuration and gives them a distortion free view of all the optotypes. Strange, after 60 years one of the very first tools to be used by OD's is one of the last to be retrofitted for the 21st Century.

Figure O